

Limited Warranty

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF MATSUSHITA ELECTRIC
CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,
DIVISION OF MATSUSHITA
ELECTRIC OF PUERTO RICO, INC.,
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

Panasonic VHS VCR Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
All components of VCR except item listed below	One (1) Year	Ninety (90) Days
Video Tape (in exchange for defective video tape)	Five (5) Days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period.

If non-rechargeable batteries are included, they are not warranted.

This warranty only applies to products purchased and serviced in the United States or Puerto Rico.

This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company
Customer Servicenter Suite B
4900 George McVay Drive
McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company
(787) 750-4300 or fax (787)768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE.

CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST. or send e-mail : consumerproducts@panasonic.com

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Web Site: <http://www.panasonic.com>

You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032

(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)

(Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

• Limited Warranty • Customer Services Directory • Guía para rápida consulta (Spanish Quick Use Guide)

Panasonic®



Omnivision VHS

Video Cassette Recorder Operating Instructions (Basic Operations)

For advanced operations, see the separate "Advanced Operations" instruction book.

Models No. PV-V4623S



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As an ENERGY STAR® Partner,
Matsushita Electric Corporation of America
has determined that this product or product
model meets the ENERGY STAR®
guidelines for energy efficiency.



Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included.

(Guía para rápida consulta en español está incluida.)

LSQT0633A

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Important Safeguards and Precautions

FOR YOUR SAFETY, READ AND RETAIN
ALL SAFETY AND OPERATING
INSTRUCTIONS. HEED ALL WARNINGS IN
THE MANUAL AND ON THE UNIT

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

2 POLARIZED OR GROUNDING PLUG

As a safety feature, this Video product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

GROUNDING PLUG CAUTION:

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection, follow these rules:

- Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or radiator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.



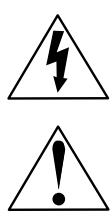
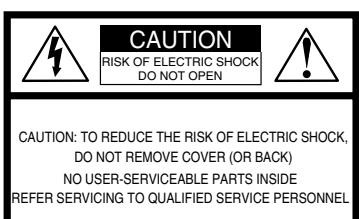
Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

Before Using

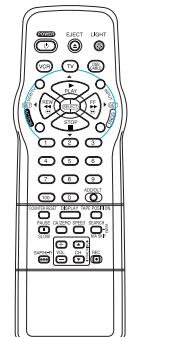
Congratulations

on your new purchase! With proper use, this dependable product will provide years of enjoyment. Please fill in the information below. (Serial number is on tag on back of VCR.)

- Date of Purchase _____
- Dealer Purchased From _____
- Dealer Address _____
- Dealer Phone No. _____
- Model No. **PV-V4623S**
- Serial No. _____

Accessories

- Remote Control LSSQ0386
- Batteries 2 "AA"

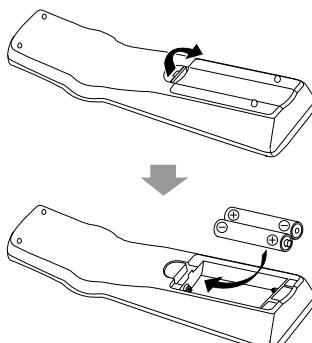


- RF Coaxial Cable LSJA0372



To order accessories, call toll free
1-800-332-5368.

Loading the Batteries

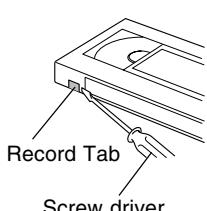


Battery replacement caution

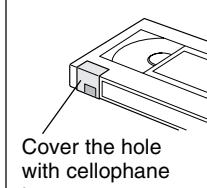
- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.



To record again



Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

Head Cleaning

Old or damaged tapes may clog heads.

Video Head Clog Sensor

Screen-right appears during play if clogging is detected.

To remove screen, press PLAY.

VIDEO HEADS MAY
NEED CLEANING
PLEASE INSERT HEAD
CLEANING CASSETTE
OR REFER TO MANUAL
END :PLAY

- Use "dry" type head cleaning cassette only.**
(Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.

Cleaning the VCR

Use soft, dry cloth or dusting attachment of a vacuum to remove dust from all cabinet vent holes. You may moisten cloth with nonabrasive, antistatic cleaner/ polisher.

Caution:

Alcohol and various solvents could damage finish.

Specifications

Power Source:	120 V AC, 60 Hz
Power Consumption:	Power On Approx. 23 W Power Off Approx. 3.0 W
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical scanning system
Audio Track:	1 track (Normal) 2 channel (Hi-Fi Audio Sound)

Tuner:	VHF 2 ~ 13, UHF 14 ~ 69
Broadcast Channels:	Midband A ~ I (14 ~ 22) Superband J ~ W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01) Ultraband 65 ~ 94, 100 ~ 125
Operating Temperature:	5 °C ~ 40 °C (41 °F ~ 104 °F)
Operating Humidity:	10 % ~ 75 %
Weight:	2.7 kg (5.9 lbs.)
Dimensions:	430 (W) x 98 (H) x 242 (D) mm 16-15/16" (W) x 3-7/8" (H) x 9-9/16" (D) inch

Note: Designs and specifications are subject to change without notice.

Features for a Quality Picture

Digital Auto Picture

Automatically controls the video output signal for less noise depending on the tape condition.

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise.

Press CH (TRACKING) ▲/▼ on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.



V-Lock Control (to reduce picture jitter)

In Still mode, CH (TRACKING) ▲/▼ operate as a V-Lock control.

Connections / Initial Setup (Ready to Play)

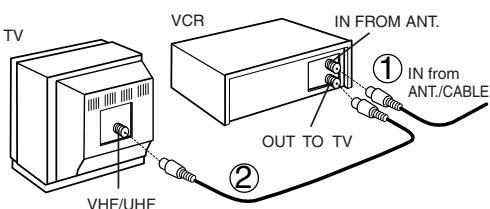
Please make all cable or antenna connections before plugging into the AC outlet.

Plugging the VCR Power Cord into an AC wall outlet starts auto channel and clock set.

Connecting

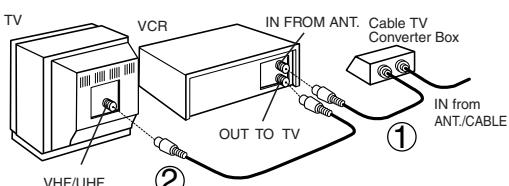
For ANT./Cable → VCR → TV

- ① Connect cable from Antenna/Cable to VCR's IN FROM ANT. jack.
- ② Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



For DSS/Cable Box → VCR → TV

- ① Connect your cable box's OUT jack to the VCR's IN FROM ANT. jack with an RF cable.
- ② Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.

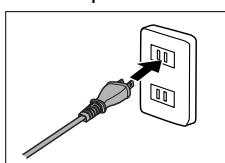


WARNING
Over tightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

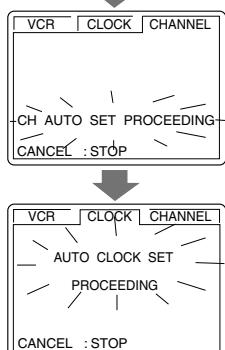
Initial Setup (Ready to Play)

- 1 Turn TV on and tune to channel 3.
- 2 Plug VCR Power Cord into AC wall outlet. VCR comes on and auto channel and clock set starts.

- If screen below does not appear, check VCR - TV connection and, if TV is tuned to channel 3, try switching it to channel 4.
- To change VCR's output channel, please refer to "VCR's Output Channel" in Advanced Operations book (p. 12).



Plugging the AC Power Plug into an AC outlet



If you use a cable box, turn it on and set it to the Public Broadcasting Station (PBS) channel in your time zone. If you use a DSS receiver, it must be turned off.

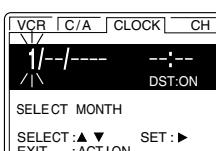
Notes

- Function buttons are inoperative during Initial Setup.
- To remove a cassette during Auto Set, press EJECT on the remote or STOP twice on the VCR. In this case, settings must be made manually. (See p. 12 of Advanced Operations book.)
- Depending on conditions, Auto Clock Set may take longer than 30 minutes. If so, press STOP to stop setup and perform settings manually. (See p. 12 of Advanced Operations book.)

Manual Clock Set

If Auto Clock Set was incomplete.

- 1 Press ACTION* on remote to display CLOCK menu.



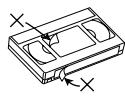
- 2 Press ▲▼ to select the month and ▶ to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time).



- 3 Press ACTION to start clock and exit.

Playback / Record on a Tape

Playback a Tape



- 1 Insert a tape.

- Loose or peeling labels may cause tape jam.
- VCR power comes on. "VCR" lights on Multi Function Display. If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.

- 2 Press PLAY to play tape.

- If tape has no rec. tab (p. 3), auto play begins.

Special Features During Play

■ Forward/Reverse Scene Search

- Press FF or REW.
- Press PLAY to release.

After search has begun, each additional press of FF or REW changes speed as shown below.

[SLP] : Approx. 21X ↔ Approx. 9X
[LP] : Approx. 9X ↔ Approx. 7X
[SP] : Approx. 7X ↔ Approx. 3X

If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

Notes

- Picture interruption may occur with some TVs.
- FF and REW search speed may vary depending on current tape position.

■ Still (Freeze) Picture

- Press PAUSE/SLOW.
- Press PLAY to release.

■ Frame by Frame Picture

- Press PAUSE/SLOW in Still mode.
- Press PLAY to release.

■ Slow Motion Picture

- Hold down PAUSE/SLOW in Still mode.
- Press PLAY to release.

Notes

- These features work best in SP or SLP mode.
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on p. 3.
- After VCR is in Still or Slow mode 3 minutes, it auto switches to Stop mode to protect the tape and the video heads.

- 3 Press STOP to stop tape.

- Press REW or FF in Stop mode to Rewind or Fast Forward tape.

- Press EJECT on remote, or STOP/EJECT on VCR to eject tape.

Record on a Tape

- 1 Insert a tape with a record tab (p. 3).

- VCR power comes on. "VCR" lights on Multi Function Display. If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.

- 2 Press CH ▲▼ or NUMBER keys to select the channel.

- For "LINE" input, see p. 9 of "Advanced Operations" book.
- If recording from a channel over 100, first press 100 key then the other 2 digits.

- 3 Press SPEED

to select record speed (p. 3).

- 4 Press REC

to start recording.

- To edit, press PAUSE/SLOW to pause, and again to resume recording.

- 5 Press STOP to stop recording.

■ One Touch Recording (recording in progress)

Press REC repeatedly to set length as follows:
30 min. → 1 hr. → 1:30 → 2:00 → 3:00
→ 4:00 → exit.
The VCR shuts off at the length set.

■ Record one station, watch another

Press VCR/TV
(“VCR” goes out on Multi Function Display),
→ select channels on TV (recording continues).

■ Select channels on VCR (in STOP or PAUSE mode)

Press VCR/TV
(“VCR” lights up on Multi Function Display),
→ select channels on VCR.

Notes

- Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.
- After 5 minutes in Pause mode, VCR stops to protect the tape and the video heads.

This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the **VHS** mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

Auto Operation Functions

■ Auto Play

Insert a tape → Power comes on → Play starts if there is no record tab (see p. 3).

■ Auto Rewind

Play
Fast Forward → Tape end → Rewind

■ Play Auto Eject

(Repeat Play must be off)

Play → Tape end → Rewind → Tape ejects if there is no record tab

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Timer Recording

Timer Recording

1 1) Press PROG*.

2) Press ▼ to display program screen.

2 1) Set record DATE, press ▲▼ to select: 1~31= one time, or DAILY= MON~FRI, or WEEKLY= same time each week and press ►.

2) Set remaining items, press ▲▼ to select and press ► to set START/ STOP times, CH (channel) or LINE input (p. 9 of Advanced Operations book), and tape speed (p. 3).

Press PROG to end programming.

To Enter More Programs

Press ▲▼ to select and press ► to set an unused program. Then repeat step 2. Or, press PROG to exit.

4 Press POWER off to set the timer recording. ("TIMER" lights on Multi Function Display.)

Review, Replace, or Clear Program

(Recording is not in progress)

a 1) Press PROG.

2) Press ▲▼ to select LIST.

Press ▲▼ to select desired program.

b

To Replace program...

1) Press ► to display.
2) Repeat Step 2 (above) to set new programs.

or

To Clear program...

Press ADD/DLT.

d Press PROG to end the programming.

Notes

- If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be left on.
- If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please re-enter the timer programs.

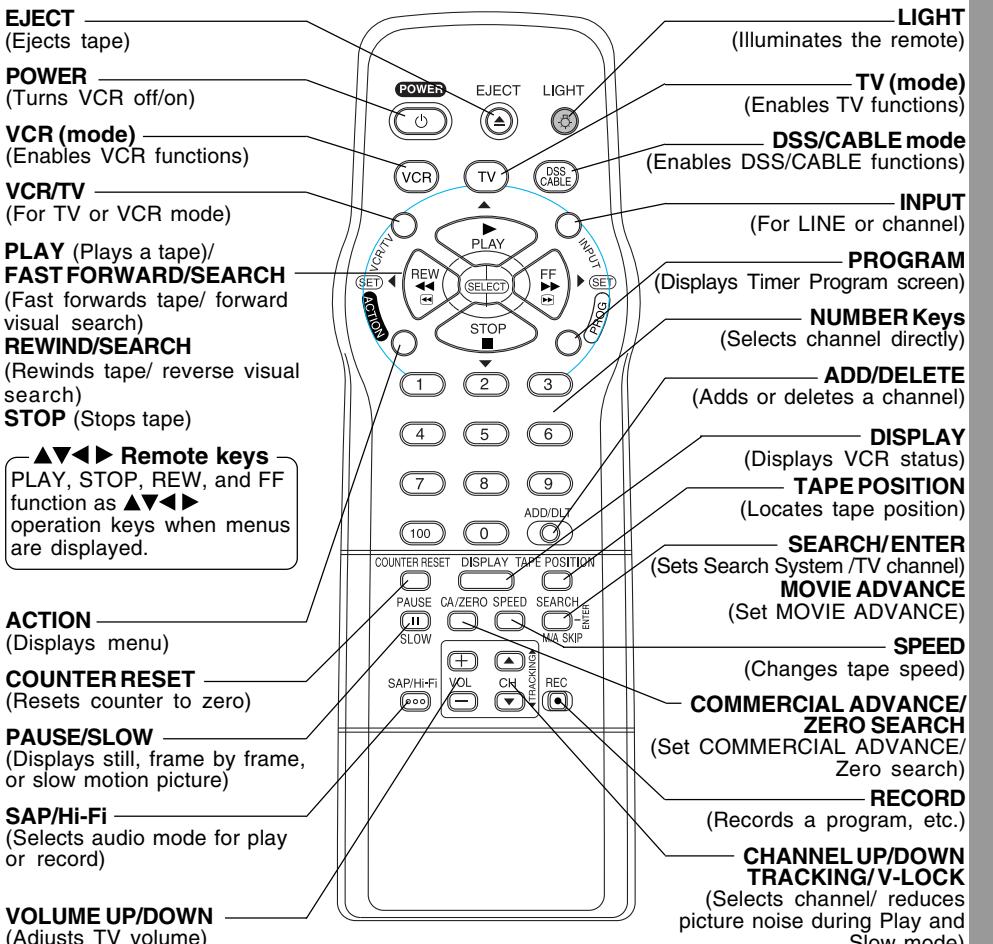
Important notes when using DSS receiver

- When recording programs via DSS receiver, DSS receiver must be left on.
- When recording programs via an antenna or cable, DSS receiver must be turned off.

*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Location of Controls

Remote Control Buttons

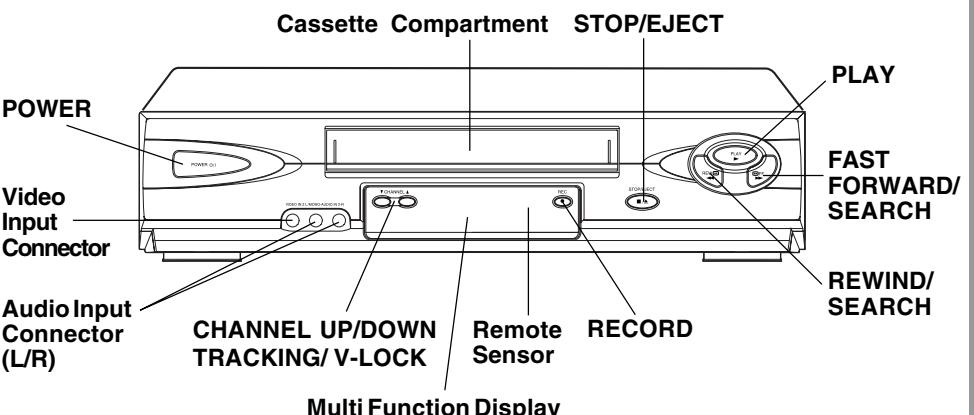


Light Tower Universal Remote Control

LIGHT button: When pressed, available buttons light and selected mode button (TV, VCR, or DSS CABLE) flashes 5 seconds. If no button is pressed, light goes out in 5 seconds. Also, hold down a button to confirm the selected mode (mode button flashes) in the dark.

EJECT button: Press to eject tape. EJECT is not available during recording.

Front View of the VCR



Location of Controls

Multi Function Display

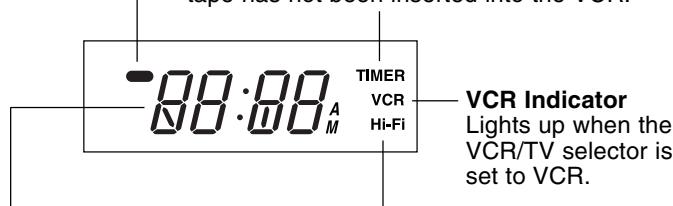
Power Indicator

Lights up when power is on.

Timer Indicator

Lights up when the VCR is set for a Timer Recording, or when One Touch Recording (OTR) is used.

Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.



Clock/ Status/ Channel/ Speed Display

Displays the current time. Briefly displays VCR status when a function button is pressed.

Briefly displays the channel number, or "L1" or "L2" when a channel or line input is selected.

Briefly displays the recording speed when SPEED is pressed.

Hi-Fi Indicator

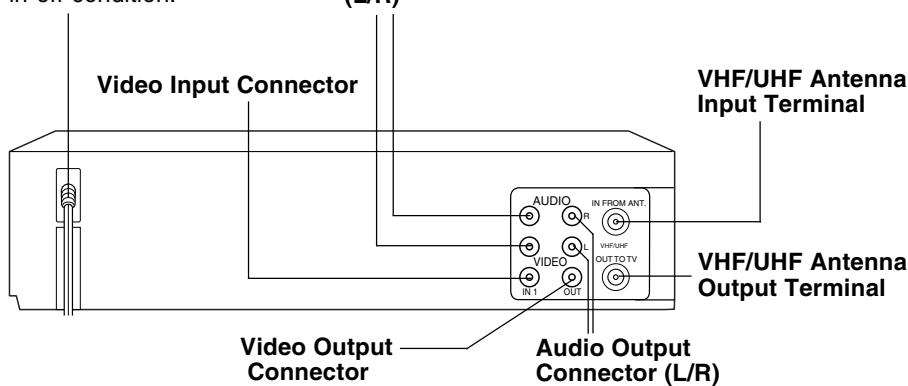
Lights up when Hi-Fi audio is monitored in Playback Mode.

Rear View of the VCR

AC Power Plug

While plugged into an AC outlet, the VCR consumes 3.0 W of electrical power in off condition.

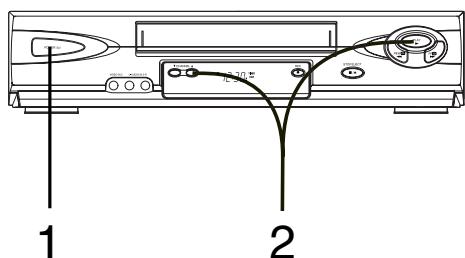
Audio Input Connector (L/R)



Reset All VCR Memory Functions

Use when moving VCR to new location, or if a mistake was made in the Initial Setup section (return to Factory Setting).

- Make sure a tape is not inserted in the VCR.



- 1 Turn VCR Power on.
- 2 Press and hold both **PLAY** and **CHANNEL ▲** on the VCR for more than 5 seconds.
 - The power shuts off.
- 3 Do "Initial Setup (Ready to Play)" on page 4.

Note to CABLE system installer

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094

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Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

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S0103-0

Spanish Quick Use Guide/ Guía para rápida consulta

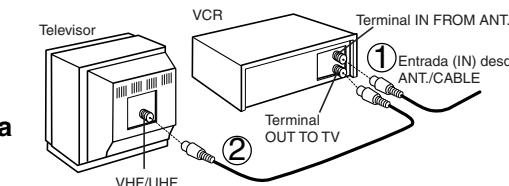
CONEXIONES/CONFIGURACIÓN INICIAL (READY TO PLAY)

Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA. La videocámara iniciará automáticamente la fijación de los canales y del reloj al enchufar el cable de CA.

CONEXIONES

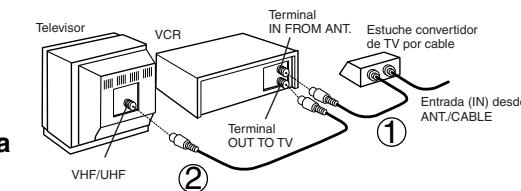
Para Ant/Cable → VCR → TV

- ① Conecte el cable de la antena al terminal IN FROM ANT del VCR.
- ② Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



Para Sistema Digital de Satélite (DSS)/ Convertidor de cable → VCR → TV

- ① Conecte la salida de convertidor de cable al terminal IN FROM ANT.
- ② Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



CONFIGURACIÓN INICIAL

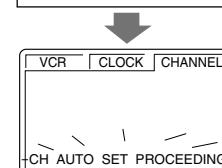
- 1 Encienda el TV y cambie al canal 3.

- 2 Enchufe el cable de CA.

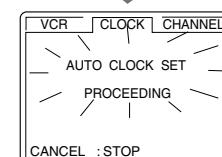
La videocámara se encenderá e iniciará las fijaciones de los canales y del reloj.

- Si no aparece la pantalla de abajo, compruebe la conexión del VCR-TV y si el canal del TV está a 3, intente cambiando al canal 4.
- Para cambiar el canal de salida del VCR, consulte las instrucciones de "Canal de salida del VCR" en la página 12 de las operaciones avanzadas.

Enchufe el cable de CA.



Cambie el idioma luego de la fijación inicial (para su ayuda vea la página 12 de las operaciones avanzadas.)



Si está usando un convertidor de TV por cable y en su área hay un canal de Public Broadcast Station (PBS), ajuste su convertidor al canal PBS de su área. Si está usando un receptor DSS, este debe estar apagado.

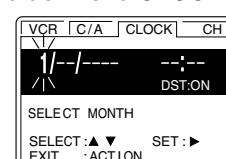
Nota

- Los botones de funciones no funcionan durante la configuración inicial.
- Para retirar un cassette durante el ajuste automático, presione EJECT en el control remoto o STOP dos veces en el aparato. En este caso, los ajustes de los canales y la hora se deben hacer manualmente. Para los ajustes seleccione la pantalla MENU. (Vea la p.12 de Libro de Operaciones Avanzadas).
- Dependiendo de las condiciones, el ajuste automático puede durar más de 30 minutos. En ese caso, presione STOP para detener el ajuste automático y realice los ajustes manualmente en la pantalla MENU. (Vea la p.12 de Libro de Operaciones Avanzadas).

AJUSTE MANUAL DEL RELOJ

Si la fijación ha sido incompleta.

- 1 Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú CLOCK.



- 2 Presione ▲▼ para seleccionar el mes y ► para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).



- 3 Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

Spanish Quick Use Guide/ Guía para rápida consulta

OPERACIONES BÁSICAS PARA LA REPRODUCCIÓN

- 1 Inserte una cassette.
- 2 Presione **PLAY** para reproducir el cassette.
 - Si el cassette no tiene la lengüeta de prevención de grabación (p. 3), se inicia la reproducción automáticamente.
- **Detalles especiales durante la grabación**
 - Presione **FF** o **REW** para búsqueda de escenas hacia delante/ hacia atrás.
 - Presione **PLAY** para liberar.
 - Durante la búsqueda, cada vez que presione **FF** o **REW** se cambia la velocidad como sigue:
[SLP] aprox. 21X ↔ aprox. 9X
[LP] aprox. 9X ↔ aprox. 7X
[SP] aprox. 7X ↔ aprox. 3X
Si la imagen se interrumpe con la velocidad de 21x, 9x o 7x, cambie la velocidad a 9x, 7x o 3x.
 - Presione **PAUSE/SLOW** para imagen Fija (Congelada).
 - Presione **PLAY** para liberar.
 - Presione **PAUSE/SLOW** en el modo de Imagen fija para imágenes cuadro a cuadro. Presione **PLAY** para liberar.
 - Mantenga pulsado **PAUSE/SLOW** en el modo de imagen fija para imágenes en cámara lenta.
 - Presione **PLAY** para liberar.
 - 3 Presione **STOP** para detener el cassette.
 - Presione **REW** o **FF** en el modo de parada para rebobinado/avance rápido del cassette.
 - Presione **EJECT** en el control remoto, o **STOP/EJECT** en el VCR para expulsar el cassette.

OPERACIONES BÁSICAS PARA LA GRABACIÓN

- 1 Inserte el cassette con lengüeta de protección de grabación (p. 3).
 - La alimentación del VCR se activa. En la pantalla Multi Función se ilumina "VCR".
- 2 Presione **CH ▲▼**, o las teclas de números para seleccionar el canal.
- 3 Presione **SPEED** para seleccionar la velocidad de grabación (p. 3)
 - SP = Reproducción estándar,
 - LP = Larga duración,
 - SLP = Superlarga duración.
- 4 Presione **REC** para comenzar a grabar.
 - Para eliminar escenas indeseadas, presione **PAUSE/SLOW** para hacer una pausa, y al presionar nuevamente continua la grabación.
- 5 Presione **STOP** para detener la grabación.
- Grabación de un toque.
 - Presione **REC** repetidamente para ajustar la duración de la grabación como sigue: como sigue: 30 min. → 1 hr → 1:30hr → 2:00 → 3:00 → 4:00 → Salida.
 - La VCR se apagara automáticamente en un intervalo seleccionado de tiempo.
- Ver un canal y grabar otro.
 - Presione **VCR/TV**. (La indicación VCR se apagara en la "visualización de Multi-Función")
 - Seleccione canales de TV (Mientras permanece grabando)
- Seleccione canales con **VCR**.
 - Presione **VCR/TV** (la indicación "VCR" se encenderá en la visualización multi-función)
 - Seleccione canales en su VCR.

PROGRAMACIÓN FÁCIL PARA LA GRABACIÓN CON TEMPORIZADOR

- 1 Presione **PROG**.
- 2 Presione **▼** para visualizar la pantalla de Programación.
- 2 Presione **▲▼** para ajustar la FECHA de grabación, presione **▲▼** para seleccionar: 1-31 = una vez, o DIARIO = a la misma hora de lunes a viernes, o SEMANA = a la misma hora cada semana y presione **▶** para ajustar.
- Orden para elegir

Ejemplo
- 2 Presione **▲▼** para seleccionar y presione **▶** para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LINEA, y velocidad del cassette (SP, LP, SLP).
- Presione **PROG** para finalizar el programa.
- 3 Presione **▲▼** para seleccionar un número que no está usando para ingresar mas programas y presione **▶** para ajustar. Luego repita el paso 2.
- Presione nuevamente **PROG** para salir.

4 Presione **POWER off** para ajustar el temporizador.

(Se ilumina "TIMER" en el panel delantero)

REVISIÓN, REEMPLAZO O BORRADO DE PROGRAMACIONES (no se puede efectuar durante la grabación)

- a Presione **PROG**.
- 2 Presione **◀▶** para seleccionar la línea.
- b Presione **▲▼** para seleccionar programa deseado.
- c Para reemplazar programa...
 - 1 Presione **▶** para desplegar menu.
 - 2 Repita paso 2 (ver arriba) para introducir el nuevo programa.
- Para cancelar programas...

Presione **ADD/DLT**

d Presione **PROG** Para terminar programación.

PARA CANCELAR LA GRABACIÓN CON TEMPORIZADOR (la grabación está teniendo lugar)

Presione **POWER** y luego **STOP** dentro de los 10 segundos para cancelar la grabación con temporizador (el indicador **TIMER** se apagará en la Pantalla de Multi-Función)

Spanish Quick Use Guide/ Guía para rápida consulta

ANTES DE AL SERVICIO SOPORTE TÉCNICO

Verifique los siguientes puntos una y otra vez si esta teniendo problemas con su VCR.
(BO : Haga referencia en la instrucciones de funcionamiento [Operaciones Básicas])
(AO : Haga referencia en la instrucciones de funcionamiento [Operaciones Avanzadas])

ALIMENTACIÓN DE AC

La unidad no enciende....

CORRECCIÓN

- Revise que el cordón de alimentación de AC este correctamente conectado a la toma de pared.
- Presione el botón "POWER" para el encendido de la unidad.
- Verifique que la fuente de alimentación esté activada.

GRABACIÓN Y REPRODUCCIÓN (REC / PLAY)

No se pueden grabar programas de TV

CORRECCIÓN

- Revise las conexiones entre VCR, antena externa o cable y TV.
- Verifique la selección de conexiones (BO p. 4, AO p. 3)
- Verifique que su sistema de antena (Cable o TV) estén correctamente seleccionados. Vea "Channels" (AO p. 12).
- Asegúrese que la pestaña en el cassette de grabación esté intacta (BO p. 3).

No se puede efectuar grabación con temporizador...

- Compruebe que el reloj ha sido ajustado a la hora y fecha actual.
- Asegúrese de que la caja de Cable/DSS (si se utiliza) se dejó encendido y está sintonizado al canal a grabar.
- Ajuste las horas de comienzo y detención de grabación correctamente. (BO p. 6)
- Asegúrese de que ha apagado el VCR antes de la grabación. (BO p. 6)
- La grabación con temporizador quizás no pueda realizarse o continuarse si se produjera una interrupción de corriente antes o durante una grabación con temporizador, incluso después de restablecido el flujo eléctrico.

No hay imagen de reproducción, o la imagen de reproducción tiene ruidos o contiene rayas...

- Seleccione el canal 3 o 4 en el televisor, de modo que corresponda con el canal de salida del videograbador (3 o 4) (BO p. 4), o seleccione LINE.
- Ajuste el selector VCR/TV a "VCR".
- Ajuste el control TRACKING en una de las dos direcciones. (BO p. 3)
- Pruebe a realizar la limpieza de cabezales. (BO p. 3)

En la reproducción de efectos especiales, la imagen puede contener algunos saltos verticales cuando se utiliza un televisor con Control de Bloqueo Vertical Automático...

- Ponga el Control de Bloqueo Vertical del televisor en "MANUAL" y luego realice el ajuste.

No se puede controlar el VCR...

- Asegúrese de que el aparato está encendido.
- Revise las pilas del control remoto.
- Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)
- Asegúrese de que no está funcionando una grabación con temporizador.

CONTROL REMOTO

NO funciona el control remoto...

CORRECCIÓN

- Asegúrese de que el aparato está encendido.
- Asegúrese de que el control remoto está en el modo de VCR.
- Apunte el control remoto directamente al sensor remoto del VCR. (BO p. 7)
- Evite que ningún objeto interrumpe la señal del control remoto.
- Revise las pilas del control remoto (BO p. 3)
- Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)
- Si el sensor remoto recibe directamente la luz del fluorescente o luz solar puede causar interferencia con la señal del control remoto.

Los botones "ACTION" y/o "PROG" no responden...

- Verifique las conexiones entre VCR, cable o antena y TV.
- Presione el botón VCR para el modo de "VCR". (AO p. 2)
- Revise las baterías del control remoto. (BO p. 3)

Varios

No se pueden ver los programas en el televisor...

CORRECCIÓN

- Asegúrese que la TV este encendida.
- Asegúrese que la TV esté conectado a la salida de la VCR (VCR Out).
- Verifique conexiones entre VCR, cable o antena y TV.
- Ajuste el selector VCR/TV a "TV". (BO p. 5, AO p. 10)
- Asegúrese que la apropiada señal fue seleccionada.

No se puede introducir la cassette de video...

- Inserte el cassette con el lado de la ventana hacia arriba y la pestaña de grabación frente a usted.
- Verifique que no tenga ningún cassette dentro del aparato.

No se puede extraer la cassette de video...

- Inserte o conecte completamente el cable de alimentación de AC a la toma de pared.

La cassette de video es expulsada al dar comienzo a una grabación o al desactivar la alimentación para la grabación con temporizador...

- Asegúrese que la pestaña de grabación del cassette este intacta. (BO p. 3)

En el modo de Detención, el motor (CILINDRO) sigue girando...

- Para activar rápidamente el mecanismo de reproducción, el cilindro sigue rotando durante 3 minutos. Esto disminuye el tiempo de respuesta desde la parada hasta la reproducción o hasta la el modo de búsqueda en rebobinado.

Si no puede resolver su problema, por favor comunicarse al Centro de llamadas del Cliente para asistencia del producto al 1-800-211-PANA(7262). Para localizar un centro de servicios autorizado, llame sin costo al 1-800-211-PANA(7262) o envie un correo a : consumerproducts@panasonic.com

Reset Language, Channels, Clock, VCR's Output Channel

VCR C/A CLOCK CH
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCR/T : ON
IDIOM/LANGUE : ENGLISH
VCR'S OUTPUT CH : 3
SELECT : ▲▼ SET : ▶
EXIT : ACTION

Press ACTION to display MENU.

■ Language

1) Press ▲▼ to select language item.

VCR C/A CLOCK CH
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCR/T : ON
IDIOM/LANGUE : ENGLISH
VCR'S OUTPUT CH : 3
SELECT : ▲▼ SET : ▶
EXIT : ACTION

2) Press ▶ repeatedly.

VCR C/A CLOCK CH
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCR/T : ON
IDIOM/LANGUE : ENGLISH
VCR'S OUTPUT CH : 3
SELECT : ▲▼ SET : ▶
EXIT : ACTION

For English

VCR C/A RELOJ CA
REPETICION : INACT
AVISO/CONT.REMOTO : ACT
APAGADO AUTOMATICO : INACT
VCR/T AUTO : OUI
LUGUE/LANGUE ESPANOL
CANAL DE SALIDA : 3
ELEGIR : ▲▼ FUAR : ▶
SALIR : ACTION

For Spanish

MAGNETO C/A HORL CA
REPETICION : NON
MESSAGE D'ERREUR : OUI
COUPLER AUTO : NON
MAGNETO/TELE AUTO : OUI
LUGUE/LANGUE : FRANCAIS
CA SORTIE : 3
SEL : ▲▼ REGLER : ▶
QUITTER : ACTION

For French

3) Press ACTION to exit.

■ Channels

1) Press ▲▼ to select CHANNEL.

VCR C/A CLOCK CHANNEL
ANTENNA : CABLE
AUTO SET WEAK SIGNAL DISPLAY : OFF
SELECT : ▲▼ SET : ▶
EXIT : ACTION

2) Press ▲▼ to select "ANTENNA," then press ▶ to set your antenna system ("TV" or "CABLE.")

VCR C/A CLOCK CHANNEL
ANTENNA : CABLE
AUTO SET WEAK SIGNAL DISPLAY : OFF
SELECT : ▲▼ SET : ▶
EXIT : ACTION

3) Press ▲▼ to select "AUTO SET," then press ▶.

- If you use Cable Box, set it to the PBS channel in your time zone.

VCR C/A CLOCK CHANNEL
CH AUTO SET PROCEEDING
CANCEL : STOP
SELECT : ▲▼ SET : ▶
EXIT : ACTION

- After Channel Auto Set is finished, Auto Clock Set will be performed.

■ Clock

1) Press ▲▼ to select CLOCK.
(Only when Auto Clock is set.)

VCR C/A CLOCK CH
AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0
SELECT : ▲▼ SET : ▶
EXIT : ACTION

2) Press ▲▼ to select "MANUAL," and press ▶. (For Auto Clock Set, select "AUTO CLOCK SET.")

VCR C/A CLOCK CH
AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0
SELECT : ▲▼ SET : ▶
EXIT : ACTION

("TIME ZONE ADJUST" appears only when auto clock is set.)

3) Press ▲▼ to select "TIME ZONE ADJUST" and press ▶ to subtract or add hour(s) as necessary.

VCR C/A CLOCK CH
6/8/2003 SUN 2:PM
DST:ON
SELECT HOUR
SELECT : ▲▼ SET : ▶
EXIT : ACTION

3) Press ▲▼ and ▶ to select and set the date, time, and DST (Daylight Saving Time).

4) Press ACTION to start the Clock and exit this mode.

■ Time Zone Adjust

(Only when Auto Clock is set.)

VCR C/A CLOCK CH
AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0
SELECT : ▲▼ SET : ▶
EXIT : ACTION

• Reset Language, Channels, Clock, Time Zone Adjust, VCR's Output Channel • DST • On-Screen Displays (OSD)

Panasonic

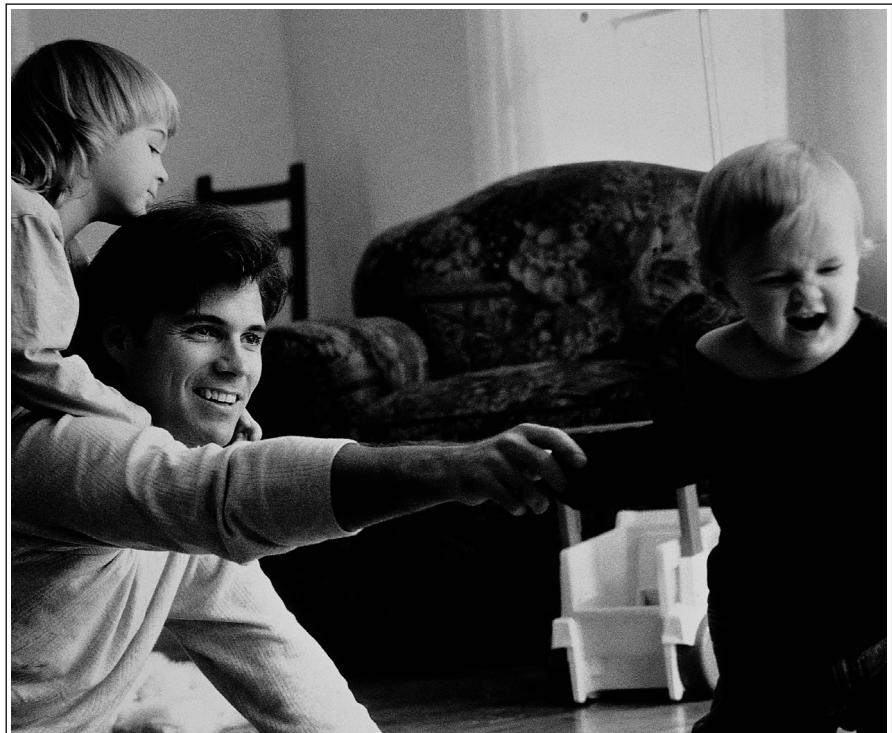


Omnivision VHS

Video Cassette Recorder Operating Instructions (Advanced Operations)

For Basic operations, see the separate "Basic Operations" instruction book.

Models No. PV-V4623S



■ VCR's Output Channel

1) Press ▲▼ to select "VCR'S OUTPUT CH."

VCR C/A CLOCK CH
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCR/T : ON
IDIOM/LANGUE : ENGLISH
VCR'S OUTPUT CH : 3
SELECT : ▲▼ SET : ▶
EXIT : ACTION

2) Press ▶.

VCR C/A CLOCK CH
IF YOU PRESS ACTION KEY, VCR'S OUTPUT CH SWITCHES TO CH 4.
SELECT : ▲▼ SET : ▶
EXIT : ACTION

3) Press ACTION.

VCR C/A CLOCK CH
PLEASE TUNE YOUR TV TO CH 4.
SELECT : ▲▼ SET : ▶
EXIT : ACTION

After 3 seconds

VCR C/A CLOCK CH
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCR/T : ON
IDIOM/LANGUE : ENGLISH
VCR'S OUTPUT CH : 4
SELECT : ▲▼ SET : ▶
EXIT : ACTION

- To Make Corrections, repeat steps 1) ~ 3).

Add or Delete a Channel

To add channel:
Select channel with **NUMBER** keys and press ADD/DLT.

CHANNEL 08 ADDED

To delete channel:
Select channel with **CH ▲▼** or **NUMBER** keys and press ADD/DLT.

CHANNEL 08 DELETED

DST (Daylight Saving Time)

VCR auto adjusts clock for DST.
Spring (First Sunday in April)
DST:ON → Sets clock ahead one hour.
Autumn (Last Sunday in October)
DST:ON → Turns clock back one hour.

- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming VCR for timer recordings.

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As an ENERGY STAR® Partner,
Matsushita Electric Corporation of America
has determined that this product or product
model meets the ENERGY STAR®
guidelines for energy efficiency.



Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

LSQT0634A

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Multi-Brand Control Feature

Multi-Brand Control Setup

The Remote Control can be set to control some TV and Cable box/DSS functions.

1 Find your TV and Cable Box/DSS Receiver Brand Code Number from those shown below.

2 Set up for TV control,

- hold down **TV** button,
- enter code with **NUMBER** keys.

■ Set up for Cable or DSS control,

- hold down **DSS/CABLE** button,
- enter code with **NUMBER** keys.

- If code number is 100 or greater,
→ press 100 key, then other digits. E.g., press 100 - 0 - 2 for 102.

3 Confirm code entry,

- press **POWER** to turn your TV on or off.

- See table below for controllable functions in each mode.

Notes

- Repeat setup after remote battery replacement.
- Remote will not control every TV, cable box, or DSS made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.

Using Multi-Brand Control

After remote is set up, you can select VCR, TV, or DSS/CABLE for the desired function.

Press **VCR**, or **TV**, or **DSS/CABLE** on the remote.

(Table below shows available unit buttons for each mode.)

Unit Mode	VCR	TV	CABLE/ DSS
VCR	All	VOL UP/DOWN	_____
TV	VCR/TV, PLAY, STOP, EJECT, SAP/ Hi-Fi, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, CA/ZERO, COUNTER RESET, TAPE POSITION	POWER, INPUT, NUMBER keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	_____
CABLE/ DSS	_____	VOL UP/DOWN	POWER, ENTER, NUMBER keys (except 100key), CH UP/ DOWN

Notes

- Not all functions listed may be controllable.
- In TV or DSS/CABLE mode, it may be necessary to press **ENTER** after pressing **NUMBER** keys for channel selection.

TV Brand Code Numbers

Panasonic	01, 02	Sylvania	05	JVC	11
Quasar	01, 02	Sharp	06, 07	Hitachi	12
RCA	03	Sony	08	Mitsubishi	07, 13
GE	03	Toshiba	09	Samsung	14
Zenith	04	Sanyo	10	Gold Star	15, 16, 17
Magnavox	05	Fisher	10		

Cable Box Brand Code Numbers

Archer	05, 06, 01, 44, 63, 91, 126	Quest	05, 06
Cabletenna	01, 44, 63, 91, 126	Radio Shack	51, 44, 59, 75, 126
Cableview	63, 44, 42, 30, 52, 04, 124, 126	RCA	16, 17, 97, 109
Century	51, 44, 59, 75, 126	Realistic	51, 44, 59, 75, 126
Citizen	63, 44, 42, 30, 52, 04, 124, 126	Recoton	51, 44, 59, 75, 126
Curtis	08, 09, 61, 53, 87	Regal	14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond	01, 44, 63, 91, 126	Regency	28, 130
Drake	67	Rembrandt	01, 32, 39, 42, 44, 63, 126
Eagle	13, 22, 58, 62, 20, 40, 26, 107	Salora	68
Eastern	28, 130	Samsung	05, 32, 40, 42, 06
GC Brand	63, 44, 42, 30, 52, 04, 124, 126	Scientific Atlanta	08, 09, 61, 53, 87
Gemini	04, 124	Sheritech	27
General Electric	57, 01	Signal	26, 112
General Instruments	01, 02, 03, 04, 34, 55, 83, 106, 65, 67, 68, 115, 117, 118, 124, 91	SL Mark	32, 40, 42, 06, 43, 44, 52, 63, 126
Hamlin	14, 15, 28, 41, 102, 103, 104, 108, 130	Sprucer	16, 17, 97, 109
Hitachi	31	Standard Components	32, 39, 42, 44, 126
Jasco	04, 124	Stargate	32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126
Jerrold	01, 02, 03, 04, 34, 55, 83, 106, 65, 67, 68, 115, 117, 118, 124, 91	Sylvania	19
Macom	31	Teknika	74
Magnavox	26, 112	Telecaption	77, 127
Matsushita	16, 17, 97, 109	Televi	32, 40, 42, 06
Movietime	32, 39, 42, 44, 126, 38, 40	Texscan	18, 19
NEC	38, 40, 32	Tocom	33, 34, 01, 42, 66, 91
NOVAVISION	08, 09, 61, 53, 87	Toshiba	36
NSC	38, 40, 32	Uniden Satellite	65
Oak	46, 11, 129	Unika	01, 44, 63, 91, 126
Oak Sigma	46, 11, 129	Universal	42, 43, 44, 52, 63, 126
Panasonic	16, 17, 97, 109	Videoway	07, 23, 50, 129
Philips	07, 13, 20, 23, 24, 50, 128, 129	Vid Tech	64
Pioneer	05, 06	Vidtek	64
Pulsar	63, 44, 42, 30, 52, 04, 124, 126	Viewstar	13, 22, 58, 62, 20, 40, 26, 107
		Zenith	07, 23, 50, 129

DSS Brand Code Numbers

Toshiba	92	Panasonic	96
Hitachi/ Hughes	93	RCA	97
Magnavox/ Uniden 1	94	Sony	98, 105
Magnavox/ Uniden 2	95		

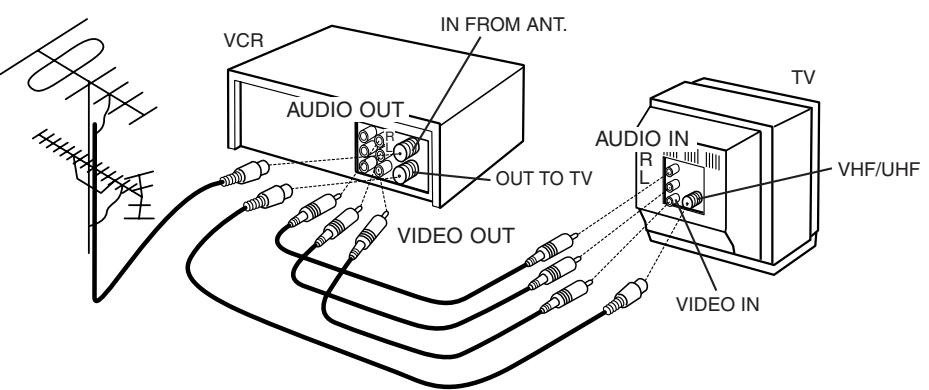
Important Notes

- Some manufacturers use several codes for one brand. If the first code entered fails, try the next one listed.
- Some TV, Cable Box and DSS Box brands require you to turn on the power manually.

Advanced Connections

Audio/Video connection

If your TV has **AUDIO IN** and **VIDEO IN** terminals, you can connect your VCR to them to receive higher quality picture and sound.

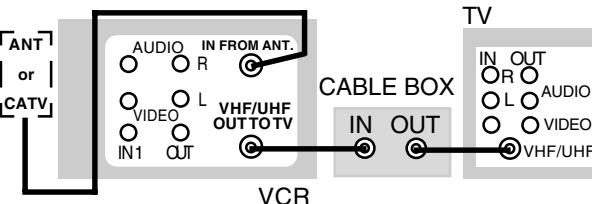


1 Connect the VCR's **VIDEO OUT** jack to the TV's **VIDEO IN** jack.

2 Connect VCR's **L/R AUDIO OUT** jacks to the TV's **L/R AUDIO IN** jacks.

3 Set the **VIDEO/TV** selector of your TV (Monitor/Receiver) to "VIDEO."

With a Cable Box (VCR → Cable Box)



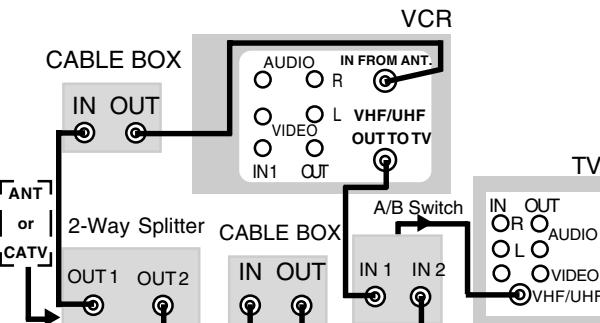
You Can

- view any (including scrambled) channel.

You Cannot

- use VCR Remote Control to select channels without using Multi-brand control feature.

Connect With Two Cable Boxes



You Can

- record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch, and a 2-way splitter.

You Cannot

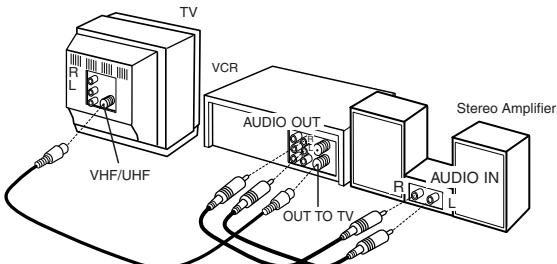
- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

MTS Broadcast/VHS Hi-Fi Stereo System

Connection

Make the Audio/Video Connection as shown on page 3.

- You can use a TV connected to Stereo amp and speakers instead of a Stereo TV.



Equipped with **dbx®-TV** Noise Reduction for true MTS reproduction. **dbx®-TV** Noise Reduction is required for good stereo separation and audio fidelity. **dbx®** is a registered trademark, and is licensed by **dbx®** Technology Licensing.

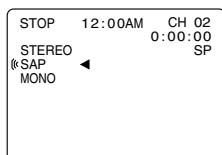
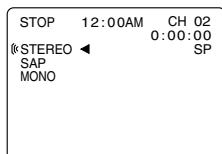
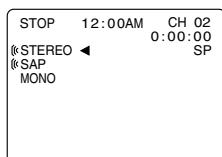
Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an “” mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received, press **DISPLAY**.*

MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select STEREO or SAP audio mode.



MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

- If stereo broadcast is weak and display flickers, select MONO audio mode for possible better results.

SAP broadcast

Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

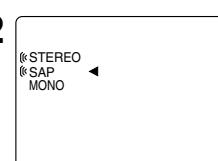
MONO broadcast

Normal monaural sound broadcast.



Audio Mode for Recording

- Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)



• Arrow indicates selection.

3 Make a recording.

See p. 5 of “Basic Operations” Instruction book.

Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amp and speakers. (See top of this page.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

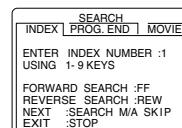
Tape Operation

Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

Index Search

1

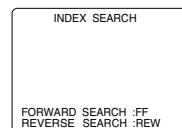


Press **SEARCH** to display SEARCH in Stop or Play mode, and then press **NUMBER** keys to select recording number.

- To calculate number, see below.

Press **FF** or **REW** to start search.

2



Play begins at search end. To search forward or back 1 index, press **FF** or **REW** while screen left is displayed (10 sec.).

- To cancel, press **STOP** or **PLAY**.

To Calculate Index Number

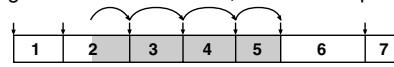
Example 1:

To go to rec. 2 from rec. 4, enter 3 and press **REW**.



Example 2:

To go to rec. 6 from rec. 2, enter 4 and press **FF**.



NOTE: ↓ indicates start points of each recording.

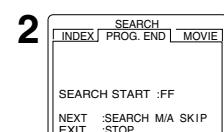
Note

- If Index Search is started very close to an index mark, that index mark may not be counted in the search.

Program End Search

Locates end point of recording for continuity.

- Press **SEARCH** twice to display SEARCH in Stop or Play mode.

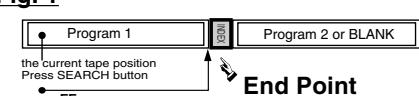


Press **FF** to start PROGRAM END SEARCH.

- To cancel, press **STOP** or **PLAY**.

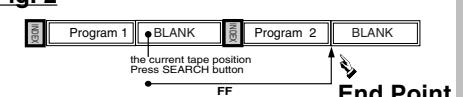
Examples of Program End Search.

Fig. 1



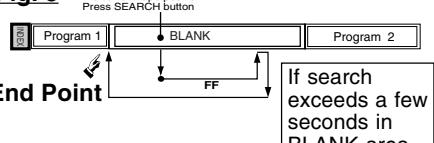
End Point

Fig. 2



End Point

Fig. 3



If search exceeds a few seconds in BLANK area.

Upon locating end point,

- search continues 7 sec. past end point,
- tape rewinds to 10 sec. before end point,
- tape plays to end point and stops.

Notes

- If Program End Search is started very close to an index mark, that mark may be skipped over.
- To cancel, press **PLAY** or **STOP**.

Zero Search

To quickly return to a specified tape location.

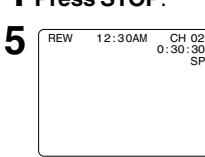
- Press **DISPLAY** during play to display Counter.



Press **RESET COUNTER** at desired position to reset to “0:00:00”.

- Continue to record, playback, etc.

- Press **STOP**.



Press **CA/ZERO** in Stop mode to start ZERO SEARCH. Unit will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.



Audio Mode for Playback

1 Start playback.

See p. 5 of “Basic Operations” Instruction book.

2 Press SAP/ Hi-Fi to display audio mode.

(Display disappears after 5 seconds.)

3



• Arrow indicates selection.

Press SAP/ Hi-Fi repeatedly to select desired mode.

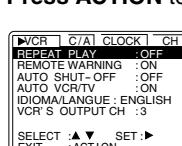
- Select “HIFI(L/R)” or “HIFI(L)” or “HIFI(R)” to listen to stereo recordings in stereo sound. Select “NORMAL” for monaural sound.

Repeat Play

Set to playback a recording over and over.

- Press **ACTION** to display menu.

2



Press **▲▼** to select REPEAT PLAY and **►** to set ON or OFF.

ON: Play repeats at tape end or if unrecorded portion over 30 sec. is detected.

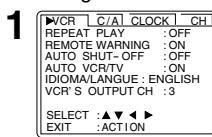
- Press **ACTION** to return to normal screen.

Tape Operation

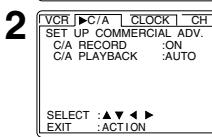
COMMERCIAL-ADVANCE®
COMMERCIAL-ADVANCE® marks start and end points of commercials within recordings over 15 minutes long. The VCR automatically advances through marked commercials at high speed. Or, you may set to manual. Because stations broadcast differently, the effectiveness of this feature may vary. See bottom of page for answers to commonly asked questions about this feature.

COMMERCIAL-ADVANCE® Marking

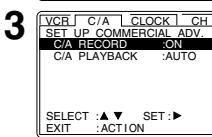
With C/A RECORD: ON, the VCR auto rewinds after a recording is made and marks start and end points of all detected commercial blocks. After marking, the tape is returned to end of recording. Commercials are not erased.



1 Press ACTION* to display MENU.

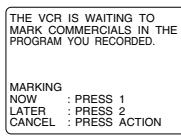


2 Press ▶ to select C/A and display SET UP COMMERCIAL ADV.



3 Press ▲▼ to select C/A RECORD and press ▶ to set "ON" or "OFF".

ON: Timer recording and One Touch recordings are marked automatically.



• When timer is used to record two consecutive shows (same channel), greater accuracy can be obtained by programming each show separately.

When STOP is pressed during normal recording, press :

- 1 key (NOW) → to mark now. "NOW MARKING COMMERCIALS" appears.
- 2 key (LATER) → to mark after power is turned off. (If tape is rewound and another recording is started before power is turned off, correct marking may not occur.)
- c) ACTION (CANCEL) → marking is canceled.

OFF: The VCR will not mark commercials.

Select when editing or dubbing a tape, or when opting not to use this feature.

4 Press ACTION again to return to normal screen.

The most commonly asked questions about COMMERCIAL-ADVANCE® are answered below.

Question	Answer
How fast does the VCR advance through commercials?	The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds.
Are commercials advanced through only when I playback a recording?	Yes. The commercials are not marked until after the recording is finished.
Are commercials still recorded on the tape in case I choose to view them sometime?	Yes. By setting the C/A PLAYBACK to MANUAL, see top of this page, you can view or advance through commercials as desired.
Does COMMERCIAL-ADVANCE® work in all recording speeds?	Yes. COMMERCIAL-ADVANCE® works in SP, LP, and SLP.
Does the VCR advance through commercials each time I playback tapes which were recorded using COMMERCIAL-ADVANCE®?	Yes. As long as C/A PLAYBACK is set to AUTO, see top of this page, the VCR should advance through commercials each time the tape is played back.
After marking commercials, does the VCR stop at the end of the tape, or rewind to the beginning?	The tape stops at the end of the recording so that any additional timer recordings can be performed.
Can I play my COMMERCIAL-ADVANCE® recordings in non-COMMERCIAL-ADVANCE® VCRs?	Yes. COMMERCIAL-ADVANCE® marked recordings will play in non-COMMERCIAL-ADVANCE® VCRs, but commercials will not be advanced through.
Does the marking process interfere with other programmed recordings?	No. If the interval between 2 or more timer programs is not sufficient to mark the recording, marking will be done after all recordings are complete and the power goes off.
What happens if I cancel the marking in progress so I can use the VCR?	Marking will be resumed when the VCR's power is turned off as long as the tape has not been ejected.
What if part of my program is advanced through along with the commercials?	Please see the 3rd note on top of this page.
Additional Notes:	<ul style="list-style-type: none"> Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all commercials. If a timer recording is scheduled for the middle of the night, please be aware that the VCR will make some noise as it rewinds and fast forwards the tape while marking commercials.

COMMERCIAL-ADVANCE® and MOVIE-ADVANCE® are registered trademarks of SRT, Inc. A Jerry Iggleston invention licensed in association with Arthur D. Little Enterprises, Inc. U.S. Pat. No. 5,333,091; 5,692,093; 5,696,866 other patents pending

Tape Operation

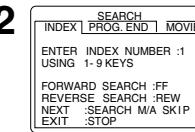
MOVIE-ADVANCE® Playback

MOVIE-ADVANCE® helps you locate certain parts of prerecorded movies (rented or purchased). The feature works in two ways.

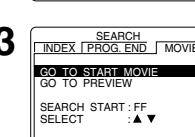
- You can go to the beginning of the movie.
- You can skip from one preview to the next.

MOVIE-ADVANCE® works only on tapes recorded in SP speed with the record tab removed.

1 Insert a tape without record tab.



2 Press SEARCH/ M/A SKIP to display SEARCH.



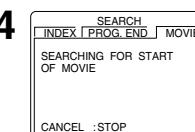
3 Press SEARCH/ M/A SKIP twice to select MOVIE and press ▲▼ to select GO TO START MOVIE or GO TO PREVIEW.

Select "GO TO START MOVIE" if you want to advance directly to beginning of the movie.

→ continue with step 4.

Select "GO TO PREVIEW," if you want to view the first (next) preview.

→ go to "To Search for Preview" at right.



4 Press FF to start searching.

- To cancel, press STOP.

When the movie is found...



5 Press PLAY to start playback.

- To cancel, press STOP.

To Search for Preview.

You can override the operation of MOVIE-ADVANCE® SEARCH FOR PREVIEWS mode by pressing SEARCH/ M/A SKIP during tape searching. MOVIE-ADVANCE® works by searching the tape past each preview and then reversing back to the start of the detected preview. While the tape is reversing back, if SEARCH/ M/A SKIP is pressed, MOVIE-ADVANCE® will begin searching for the next preview. While searching for the next preview, if you see the start of a preview which you wish to watch, press SEARCH/ M/A SKIP and MOVIE-ADVANCE® will immediately reverse back to the start of that preview, instead of searching further past the preview start point.

Once the VCR is playing a preview, press SEARCH/ M/A SKIP to advance to the next preview, long commercial or the start of the movie (whichever is next).

1 Start preview searching.

1) In step 3 at left, select Go To PREVIEW.

2) Press FF.

- If you want to playback, press PLAY.

When a preview is detected, VCR will start playback.

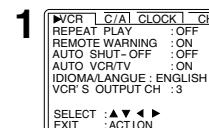
2 Start next preview searching.

Press SEARCH/ M/A SKIP.

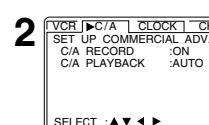
- To cancel, press STOP.

COMMERCIAL-ADVANCE® Playback

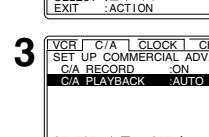
COMMERCIAL-ADVANCE® marked recordings can be played back so that commercial blocks are advanced through automatically or manually.



1 Press ACTION to display MENU.



2 Press ▶ to select C/A and display SET UP COMMERCIAL ADV.



3 Press ▲▼ to select C/A PLAYBACK and press ▶ to set "AUTO" or "MANUAL".

AUTO: VCR will automatically advance through marked commercial blocks recorded on the tape and then resume playback.

MANUAL: VCR will advance through commercials only when CA/ZERO is pressed. Playback will resume when the end mark of a commercial block is found, or a new recording or blank portion is detected, or after 8 minutes.

4 Press ACTION again to return to normal screen.

Notes

- The mode set in step 3 remains unless a power outage occurs in which case the factory setting will be restored.
- If playback is started in the middle of a commercial, only a single commercial is shown, or a single commercial is longer than 1 minute, a commercial may not be skipped. Press FF to quickly advance through the commercial.
- Part of a recorded program may be skipped over if the program portion between commercials is less than one minute or there are frequent dark and quiet scenes in the program. To correct, press PLAY during the skip, rewind tape to just prior to where skipping started, then press PLAY again for normal playback. When the end of the commercials is detected, auto advance will resume.

The most commonly asked questions about COMMERCIAL-ADVANCE® are answered below.

Question	Answer
How fast does the VCR advance through commercials?	The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds.
Are commercials advanced through only when I playback a recording?	Yes. The commercials are not marked until after the recording is finished.
Are commercials still recorded on the tape in case I choose to view them sometime?	Yes. By setting the C/A PLAYBACK to MANUAL, see top of this page, you can view or advance through commercials as desired.
Does COMMERCIAL-ADVANCE® work in all recording speeds?	Yes. COMMERCIAL-ADVANCE® works in SP, LP, and SLP.
Does the VCR advance through commercials each time I playback tapes which were recorded using COMMERCIAL-ADVANCE®?	Yes. As long as C/A PLAYBACK is set to AUTO, see top of this page, the VCR should advance through commercials each time the tape is played back.
After marking commercials, does the VCR stop at the end of the tape, or rewind to the beginning?	The tape stops at the end of the recording so that any additional timer recordings can be performed.
Can I play my COMMERCIAL-ADVANCE® recordings in non-COMMERCIAL-ADVANCE® VCRs?	Yes. COMMERCIAL-ADVANCE® marked recordings will play in non-COMMERCIAL-ADVANCE® VCRs, but commercials will not be advanced through.
Does the marking process interfere with other programmed recordings?	No. If the interval between 2 or more timer programs is not sufficient to mark the recording, marking will be done after all recordings are complete and the power goes off.
What happens if I cancel the marking in progress so I can use the VCR?	Marking will be resumed when the VCR's power is turned off as long as the tape has not been ejected.
What if part of my program is advanced through along with the commercials?	Please see the 3rd note on top of this page.
Additional Notes:	<ul style="list-style-type: none"> Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all commercials. If a timer recording is scheduled for the middle of the night, please be aware that the VCR will make some noise as it rewinds and fast forwards the tape while marking commercials.

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Before Requesting Service

Check the following points once again if you are having trouble with your VCR.
(BO : refers to "Basic Operations" Instruction book.)

(AO : refers to "Advanced Operations" Instruction book.)

Power	Correction
No power...	<ul style="list-style-type: none"> • Completely insert Power Plug into an AC outlet. • Set POWER button to on. • Make sure power source is active.
Recording & Playback	Correction
TV program cannot be recorded...	<ul style="list-style-type: none"> • Check connections between VCR, external antenna, and TV. • Check connections selection. (BO p. 4, AO p. 3) • Make sure your antenna system (CABLE or TV) is correctly set. (Channels [AO p. 12]) • Make sure cassette record tab is intact. (BO p. 3)
Timer recording cannot be performed...	<ul style="list-style-type: none"> • Confirm that clock is set to current time and date. • Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded. • Set recording start/stop times correctly. (BO p. 6) • Make sure VCR POWER button is pressed off. (BO p. 6) • Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.
There is no playback picture, or the playback picture is noisy or contains streaks...	<ul style="list-style-type: none"> • Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (BO p. 4) or select LINE. • Set VCR/TV selector to "VCR." • Adjust TRACKING control in either direction. (BO p. 3) • Try Head Cleaning. (BO p. 3)
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control...	<ul style="list-style-type: none"> • Set TV's Vertical Hold Control to MANUAL, then adjust.
VCR cannot be controlled...	<ul style="list-style-type: none"> • Make sure VCR power is on. • Check Remote batteries. • Make sure VCR LOCK is set to off. (AO p. 10) • Make sure Timer Record is not in progress.
Remote Control	Correction
VCR cannot be remote controlled...	<ul style="list-style-type: none"> • Make sure VCR power is on. • Make sure Remote is in VCR mode. • Aim Remote Control directly at remote sensor on VCR. (BO p. 7) • Avoid any object blocking signal path. • Check Remote batteries. (BO p. 3) • Make sure VCR LOCK is set to off. (AO p. 10) • Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons do not respond...	<ul style="list-style-type: none"> • Check connections between VCR, external antenna, and TV. • Press VCR button for VCR mode. (AO p. 2) • Check Remote batteries. (BO p. 3)
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none"> • Make sure TV power is on. • Make sure TV is set to output of VCR. • Check connections between VCR, external antenna, and TV. • Set VCR/TV selector to "TV." (BO p. 5, Ao p.10) • Make sure proper signal source is selected.
Video cassette cannot be inserted...	<ul style="list-style-type: none"> • Insert the cassette with window side up; record tab facing you. • Check if a tape is already in the unit.
Video cassette cannot be removed...	<ul style="list-style-type: none"> • Confirm Power Plug is fully inserted into an AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none"> • Make sure cassette record tab is intact. (BO p. 3)
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none"> • To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262).

To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262). or send e-mail to : consumerproducts@panasonic.com

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

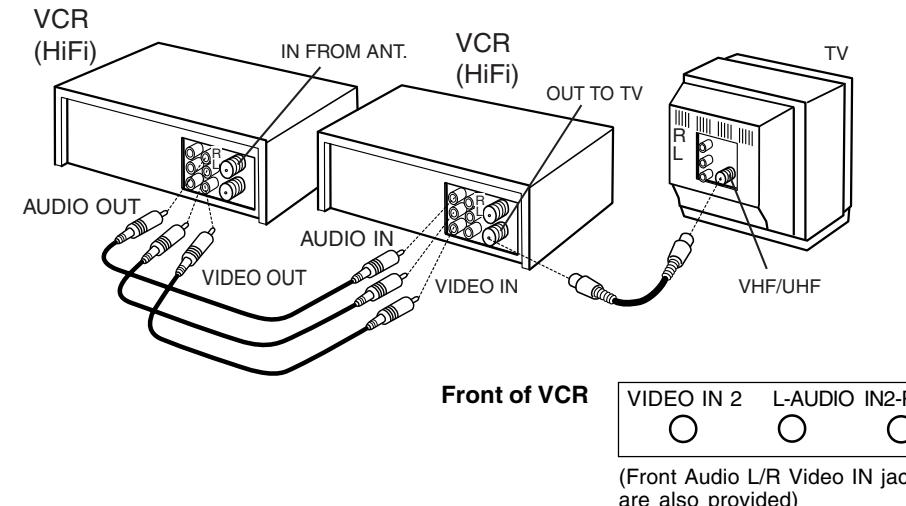


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S0103-0

Copying Your Tapes (Dubbing)

Connection

(Rear connection shown.)



① Connect VIDEO OUT jack on Playing VCR to VIDEO IN jack on Recording VCR. To monitor the dubbing, also connect a TV as shown.

② Connect AUDIO L/R OUT jacks on Playing VCR to AUDIO L/R IN jacks on Recording VCR.

In place of a Playing VCR, you can use other equipment, such as a Camcorder. Simply connect the unit's Audio/Video outputs to the Recording VCR.

Playing (Source) VCR

1 Insert pre-recorded tape.

Insert blank tape with record tab.

2

Press INPUT* to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video Input (Front). (See "Selecting the Input Mode" below.)

3

Press PLAY, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode.

Press REC, then PAUSE/SLOW immediately to enter REC/PAUSE mode.

4

Press PLAY to start dubbing.
Playing VCR starts playback.

Press PAUSE/SLOW to start dubbing.
Recording VCR starts recording.

5

Press STOP to stop dubbing.

Press STOP to stop dubbing.

To Monitor Dubbing on Your TV

1 Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).

2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

Note • Dubbing tapes protected with Copy Guard will have poor quality results.

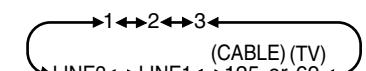
Selecting the Input Mode

Method 1:

Press INPUT repeatedly.
Channel Number ↔ LINE1 ↔ LINE2

Method 2:

Press CH ▲ / ▼.
Display will change as below.



- "L1" or "L2" lights on Multi-Function Display (about 4 sec.) when LINE1 or LINE2 is selected.
- LINE1: For rear audio/video connection.
LINE2: For front audio/video connection.

Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

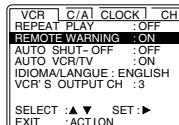
Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Special VCR Features

Remote Warning ON/OFF Feature

If Multi-brand feature is used (page 2), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS or CALE mode.

1 Press ACTION to display menu.



Press ▲▼ to select REMOTE WARNING and press ▶ to set ON or OFF.

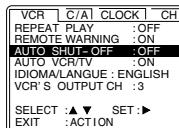
- If "OFF," remote warning will not appear if invalid key is pressed.

3 Press ACTION to return to normal screen.

Auto Shut-Off Feature

The power shuts off at a preset time.

1 Press ACTION to display menu.



Press ▲▼ to select AUTO SHUT-OFF. Press ▶ repeatedly to change shutoff time as shown below.

OFF → 2 Hours → 4 Hours → 6 Hours

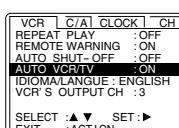
3 Press ACTION to return to normal screen.

Note • The shut-off countdown will not function during Play or Record.

VCR/TV Selector Feature

The VCR/TV selection can be set to auto or manual.

1 Press ACTION to display menu.



Press ▲▼ to select AUTO VCR/TV, and press ▶ to set ON or OFF.

- OFF(Manual): You select "VCR" or "TV" mode using the VCR/TV button on the unit or remote.
- ON(Auto): "VCR" mode is automatically set when VCR is turned on, or in Play mode.

3 Press ACTION to return to normal screen.

Note

- For more on VCR/TV selection, see "Record one station, watch another" and "Select channels on VCR" sections (see p. 5 of Basic Operations book).

Tape Position and Tape Status Feature

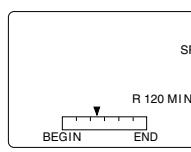
To find out the present tape position and amount of tape remaining.

Tape position is displayed for VHS-C type Cassettes, tapes under 30 minute long, and some other tapes, but the position is not correct.

1 Press TAPE POSITION to detect current tape position.

DETECTING TAPE POSITION

- "DETECTING TAPE POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct indication to appear.



- The present tape position indication and amount of tape remaining (according to tape speed) is displayed. Tape remaining time display may not be precise.

2 Press TAPE POSITION to return to normal screen.

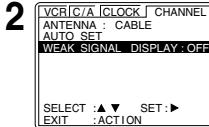
Note

This function cannot display exact amount of tape remaining for tapes 30 minutes or less, or for tapes over 120 minutes in length.

Weak Signal Display ON/OFF Feature

When set to "ON," picture is displayed regardless of signal strength.

1 Press ACTION to display menu.



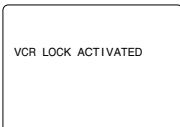
Press ▲▼ to select and display CHANNEL. Press ▲▼ to select WEAK SIGNAL DISPLAY, and press ▶ to set ON or OFF.

- ON: Picture is displayed even if signal is very weak but quality may be poor.
- OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

3 Press ACTION to return to normal screen.

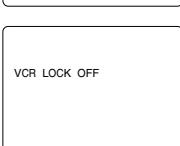
VCR Lock Feature

When set to ON, all operations except for timer record and tape eject are prohibited. Useful for households with small children.

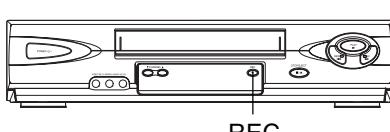


To turn on, hold down REC on the VCR in Stop mode with no tape inserted for 7 sec. (Please ignore the NO CASSETTE warning.)

To turn off, repeat above.



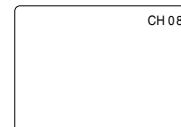
- VCR Lock cancels in 24 hours if clock is set.



• Special VCR Features

On-Screen Displays (OSD)

Function & Channel Displays



When a function button is pressed, e.g. PLAY, or you change channels, a 5 second display appears.

VCR Status & Clock Displays

To display or remove overlay at right, press DISPLAY*.

Function Status

Rec Time Remaining (OTR mode only. See p. 5 of Basic Operations book.)

Broadcast Audio Being Received

Blank Tape/No Video Signal Indications

When blank tape is detected during play, or the current channel has no signal (with Weak Signal Display feature (p. 10) set to OFF), the TV screen will turn solid blue.

Current Time

12:00AM CH 02 -0:12:34 SP

Channel Counter Tape Speed (See p. 3 of Basic Operations book.)

Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

OSD	Caution	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set...	See page 6 of Basic Operations book
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set...	See page 6 of Basic Operations book
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab...	See page 3 of Basic Operations book
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted...	See page 5 of Basic Operations book
TO CANCEL TIMER REC PRESS POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)	See page 6 of Basic Operations book
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL	If head cleaning becomes necessary while playing back a tape...	See page 3 of Basic Operations book
END :PLAY		
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode...	See page 10
REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY	If you press an invalid key on the remote while in CABLE/DSS mode...	See pages 2, 10
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY	If you press an invalid key on the remote while in TV mode...	See pages 2, 10

***Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.